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AUSTIN, T	X 78758-1641		3629	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Application No.   10/042,489   SEITZ, THOMAS LEE     Examiner
Igor Borissov   3629    - The MAILING DATE of this communication appears on the cover sheet with the correspondence address −  - Period for Reply
- The MalLING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.13(g). In no event, however, may a reply be timely filed after STK (9) MONTH'S from the mailing date of this communication.  He period for reply specified above is less than thinty (30) days, a reply will the statutory minimum of thirty (30) days will be considered timely.  He period for reply specified above is less than thinty (30) days, a reply will not see a reply than the set of this communication.  He period for reply within the set or extended pend for reply will, by statute, cause the application to be more than the control timely.  He period for reply within the set or extended pend for reply will, by statute, acuse the application to be reply within the set or extended pend for reply will, by statute, acuse the application from the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) ★ Responsive to communication(s) filed on 13 September 2004.  2a) ★ This action is FINAL.  2b) ★ This action is non-final.  3) ★ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ★ Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ★ Claim(s) is/are a rejected.  7) ★ Claim(s) is/are rejected.  7) ★ Claim(s) is/are rejected.  7) ★ Claim(s) is/are rejected.  10) ★ The drawing(s) filed on 1/109/2002 is/are: a) ★ accepted or b) ★ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.121(d).  11) ★ The oath or declaration is objec
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THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.33(a). In no event, however, may a reply be timely filed after SIX (b) MONTHS from the mailing date of this communication.  - If the period for reply is specified above is less than thiny (30) days, a reply within the statutory minimum of thiny (30) days will be considered timely.  - If INO period for reply is specified above is less than thiny (30) days, a reply within the statutory minimum of thiny (30) days will be considered timely.  - If INO period for reply is specified above, the maximum statutory period will apply and will expire SIX (b) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will by statute, cause the application to become ABANDMSED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  - Status  1) Responsive to communication(s) filed on 13 September 2004.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  - By Claim(s) is/are objected to by the Examiner.  10) The drawing(s) filed on 1/09/2002 is/are; a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Ex
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>
2. Certified copies of the priority documents have been received in Application No
3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)
1) Unotice of References Cited (PTO-892)  4) Uniterview Summary (PTO-413)  2) Paper No(s)/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Other:

Art Unit: 3629

#### **DETAILED ACTION**

### Response to Amendment

Amendment received on 9/13/2004 is acknowledged and entered. Claim 1 has been amended. Claims 1-20 are currently pending in the application.

#### Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claimed invention is not within the technological arts.

As an initial matter, the United States Constitution under Art. I, §8, cl. 8 gave Congress the power to "[p]romote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries". In carrying out this power, Congress authorized under 35 U.S.C. §101 a grant of a patent to "[w]hoever invents or discovers any new and useful process, machine, manufacture, or composition or matter, or any new and useful improvement thereof." Therefore, a fundamental premise is that a patent is a statutorily created vehicle for Congress to confer an exclusive right to the inventors for "inventions" that promote the progress of "science and the useful arts". The phrase "technological arts" has been created and used by the courts to offer another view of the term "useful arts". See *In re Musgrave*, 167 USPQ (BNA) 280 (CCPA 1970). Hence, the first test of whether an invention is eligible for a patent is to determine if the invention is within the "technological arts".

Further, despite the express language of §101, several judicially created exceptions have been established to exclude certain subject matter as being patentable

Art Unit: 3629

subject matter covered by §101. These exceptions include "laws of nature", "natural phenomena", and "abstract ideas". See *Diamond v. Diehr*, 450, U.S. 175, 185, 209 USPQ (BNA) 1, 7 (1981). However, courts have found that even if an invention incorporates abstract ideas, such as mathematical algorithms, the invention may nevertheless be statutory subject matter if the invention as a whole produces a "useful, concrete and tangible result." See *State Street Bank & Trust Co. v. Signature Financial Group, Inc.* 149 F.3d 1368, 1973, 47 USPQ2d (BNA) 1596 (Fed. Cir. 1998).

This "two prong" test was evident when the Court of Customs and Patent Appeals (CCPA) decided an appeal from the Board of Patent Appeals and Interferences (BPAI). See *In re Toma*, 197 USPQ (BNA) 852 (CCPA 1978). In *Toma*, the court held that the recited mathematical algorithm did not render the claim as a whole non-statutory using the Freeman-Walter-Abele test as applied to *Gottschalk v. Benson*, 409 U.S. 63, 175 USPQ (BNA) 673 (1972). Additionally, the court decided separately on the issue of the "technological arts". The court developed a "technological arts" analysis:

The "technological" or "useful" arts inquiry must focus on whether the claimed subject matter...is statutory, not on whether the product of the claimed subject matter...is statutory, not on whether the prior art which the claimed subject matter purports to replace...is statutory, and not on whether the claimed subject matter is presently perceived to be an improvement over the prior art, e.g., whether it "enhances" the operation of a machine. In re Toma at 857.

In *Toma*, the claimed invention was a computer program for translating a source human language (e.g., Russian) into a target human language (e.g., English). The court found that the claimed computer implemented process was within the "technological art" because the claimed invention was an operation being performed by a computer within a computer.

The decision in *State Street Bank & Trust Co. v. Signature Financial Group, Inc.* never addressed this prong of the test. In *State Street Bank & Trust Co.*, the court found that the "mathematical exception" using the Freeman-Walter-Abele test has little,

Page 4

Art Unit: 3629

if any, application to determining the presence of statutory subject matter but rather, statutory subject matter should be based on whether the operation produces a "useful, concrete and tangible result". See State Street Bank & Trust Co. at 1374. Furthermore, the court found that there was no "business method exception" since the court decisions that purported to create such exceptions were based on novelty or lack of enablement issues and not on statutory grounds. Therefore, the court held that "[w]hether the patent's claims are too broad to be patentable is not to be judged under §101, but rather under §§102, 103 and 112." See State Street Bank & Trust Co. at 1377. Both of these analysis goes towards whether the claimed invention is non-statutory because of the presence of an abstract idea. Indeed, State Street abolished the Freeman-Walter-Abele test used in Toma. However, State Street never addressed the second part of the analysis, i.e., the "technological arts" test established in Toma because the invention in State Street (i.e., a computerized system for determining the year-end income, expense, and capital gain or loss for the portfolio) was already determined to be within the technological arts under the *Toma* test. This dichotomy has been recently acknowledged by the Board of Patent Appeals and Interferences (BPAI) in affirming a §101 rejection finding the claimed invention to be non-statutory. See Ex parte Bowman, 61 USPQ2d (BNA) 1669 (BdPatApp&Int 2001).

In the present application, the claims are completely silent with regard to technology and is purely an abstract idea or process steps that are employed completely without the use of any technology whatsoever. The claims are no more than a suggested idea of estimating charges for services upon request. The independently claimed steps of: receiving a request from a requestor; identifying one or more resources and one or more service levels corresponding to the request; calculating a labor rate by service level; generating a response corresponding to the calculation and sending a response to the requestor are abstract ideas which can be performed mentally without interaction of a physical structure. Said method steps may be understood as merely inquiring about service charges over the telephone. However, the claimed invention must utilize technology in a non-trivial manner (Ex parte Bowman, 61

Art Unit: 3629

USPQ2d 1665, 1671 (Bd. Pat. App. & Inter. 2001)). Although Bowman is not precedential, it has been cited for its analysis.

Furthermore, in accordance with MPEP 2106 (IV)(B)(2)(b) "Statutory Process Claims", not all processes are statutory under 35 U.S.C. 101. Schrader, 22 F.3d at 296. 30 USPQ2d at 1460. To be statutory, a claimed computer related process must either: (A) result in a physical transformation outside the computer for which a practical application in the technological arts is either disclosed in the specification or would have been known to a skilled artisan, or (B) be limited to a practical application within the technological arts. See Diamond v. Diehr, 450 U.S. at 183-184, 209 USPQ at 6 (quoting Cochrane v. Deener, 94 U.S. 780, 787-788 (1877)). The claims in the present application do not appear to satisfy either of the two conditions listed above. First, the claims do not include limitations that would suggest a computer is being used to transform the data from one form to another that would place the invention in the technological arts. Second, disregarding the fact that there is no computer claimed that would physically transform the data, there does not appear to be any physical transformation of data. The claims merely determine a labor rate by service level; however, said labor rate and service level appear to be an arbitrary abstract thing and not a discrete value resulting from a calculation of these parameters by a computer or processor. Thus, there neither appears to be any physical transformation of data from one form to another, which is based upon an algorithm or a calculation by a computer or processor, nor is there any technology claimed that would be used to transform the data.

As to technological arts recited in the preamble, mere recitation in the preamble (i.e., intended or field of use) a computer, or mere implication of employing a machine or article of manufacture to perform some or all of the recited steps does not confer statutory subject matter to an otherwise abstract idea unless there is positive recitation in the claim as a whole to breathe life and meaning into the preamble.

As to "wherein" clause, it merely states the intended use of the invention, and adds nothing to the patentability of the claim. Mere intended or nominal use of a component, albeit within the technological arts, does not confer statutory subject matter

to an otherwise abstract idea if the component does not apply, involve, use, or advance the underlying process.

Therefore, because the independently claimed invention is directed to an abstract idea which does not recite a limitation in the technological arts, those claims and claims depending from them, are not permitted under 35 USC 101 as being related to non-statutory subject matter. However, in order to consider those claims in light of the prior art, examiner will assume that those claims recite statutorily permitted subject matter.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 6-8, 13-14 and 19-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Cooney et al. (US 2002/0023060).

Cooney et al. (hereinafter Cooney) teaches a compute-implemented method and system for determining charges for a service, comprising:

Claims 1, 8 and 14. In response to a quote request, identifying one or more resources and one or more service levels corresponding to the request; calculating and providing a labor rate in accordance with service level [0014]; [0082]-[0084].

Claims 6, 13 and 19. Determining a labor rate based on the comparison a standard labor rate with the labor rate by service level [0082]-[0084].

Claims 7 and 20. See reasoning applied to claim 1.

Art Unit: 3629

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 9 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooney in view of Fad et al. (US 5,793,632).

Claims 2, 9 and 15. Cooney teaches all the limitations of claims 2, 9 and 15, except teaching inputting an overtime parameters for calculating charges for a service.

Fad et al. (hereinafter Fad) teaches a computer-implemented cost estimating method and system, wherein input parameters for calculating costs includes overtime rates (C. 3, L. 30).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Cooney to include overtime rates as an input parameter for calculating charges for a service, as disclosed in Fad, because it would advantageously increase accuracy of the system, thereby make it more attractive to customers.

Claims 3-4, 10-11 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooney and Fad.

Claims 3-4, 10-11 and 16-17. Cooney and Fad teach all the limitations of claims 3-4, 10-11 and 16-17, including inputting an overtime parameters, service level and labor rates for calculating charges for a service (See reasoning applied to claim 2).

Cooney and Fad do not specifically teach calculating a utilization index and overtime index.

However, calculations of the utilization index and overtime index represent mere manipulation of statistical data, and, therefore, utilization of said indexes for calculation charges for a service appear to be an obvious variations of statistical calculation.

Claims 5, 12 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooney.

Claims 5, 12 and 18. Cooney teaches all the limitations of claims 5, 12 and 18, except specifically teaching determining whether the resource is *available*.

However, it is old and well known that businesses charge for the services, which are *available* for utilization.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Cooney to include determining whether the resource is available, because charging for the resource which is not available would cause loosing clients.

### Response to Arguments

Applicant's arguments filed on 9/13/2004 have been fully considered but they are not persuasive.

In response to Applicant's argument that the amendment to the claim 1 obviates the claim rejections under 35 USC 101, the examiner stipulates that as to technological arts recited in the preamble, mere recitation in the preamble (i.e., intended or field of use) a computer, or mere implication of employing a machine or article of manufacture to perform some or all of the recited steps does not confer statutory subject matter to an otherwise abstract idea unless there is positive recitation in the claim as a whole to breathe life and meaning into the preamble. The body of the claim does not recite any technical limitation, and is purely an abstract idea or process steps that are employed completely without the use of any technology whatsoever.

Art Unit: 3629

In accordance with MPEP 2106 (IV)(B)(2)(b) "Statutory Process Claims", not all processes are statutory under 35 U.S.C. 101. *Schrader*, 22 F.3d at 296, 30 USPQ2d at 1460. To be statutory, a claimed computer related process must either: (A) result in a physical transformation outside the computer for which a practical application in the technological arts is either disclosed in the specification or would have been known to a skilled artisan, or (B) be limited to a practical application within the technological arts. See *Diamond v. Diehr*, 450 U.S. at 183-184, 209 USPQ at 6 (quoting *Cochrane v. Deener*, 94 U.S. 780, 787-788 (1877)). The claims in the present application do not appear to satisfy either of the two conditions listed above.

Therefore, because the independently claimed invention is directed to an abstract idea which does not recite a limitation in the technological arts, those claims and claims depending from them, are not permitted under 35 USC 101 as being related to non-statutory subject matter.

In response to applicant's argument that the prior art fails to show certain features of applicant's invention, it is noted that the "urgency" feature upon which applicant relies in claim 1, is not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response to applicant's argument that the prior art fails to disclose calculation the utilization index by service level as recited in claim 3, it is noted that Cooney and Fad teach inputting an overtime parameters, service level and labor rates for calculating charges for a service (See a discussion above). As per utilization index and overtime index, calculations of these parameters represent mere manipulation of statistical data, and, therefore, utilization of said indexes for calculation of charges for a service appear to be an obvious variations of statistical calculations.

#### Conclusion

THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Igor Borissov at telephone number (703) 305-4649.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist whose telephone number is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John Weiss, can be reached at (703) 308- 2702.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington D.C. 20231

or faxed to:

(703) 872-9306 [Official communications; including After Final communications labeled "Box AF"]

Hand delivered responses should be brought to Crystal Park 5, 2451 Crystal Drive, Arlington, VA, 7<sup>th</sup> floor receptionist.

ΙB

11/19/2004

JOHN G. WEISS

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600